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20. ABSTRACT (Continue as reverse state if necessary am	d identify by block number;)
Meteorological data gathered for the Number BN-300, BN-301, BN-302, BN-7-445/DL-13 Thru V-454/DL-18 are pro-	304, BN-303, BN-	-305, Round Number

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INTRODUCTION

19319A MLRS, Missile Numbers BN-300, BN-301, BN-302, BN-304, BN-303, and BN-305, Round Numbers V-449/DL-13 Thru V-454/DL-18, were launched from LC-33, White Sands Missile Range (WSMR). New Mexico, at 1600:01, 1600:05, 1600:10, 1600:14, 1600:19 and 1600:23 MDT, 14 Jun 83. The scheduled launch times were 1600 MDT with a 4.5 second separation.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

- 1. Observations
 - a. Surface
- (1) Standard surface observations to include pressure, temperature (°C), relative humidity, dew point (°C), density (gm/m 3), wind direction and speed, and cloud cover were made at the LC-33 Met Site at T-0 minutes.
- (2) Anemometer data were provided from existing pole-mounted and tower-mounted anemoneters at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.
 - b. Upper Air
- (1) Low level wind data were obtained from pilot-balloon observations at:

SITE AND ALTITUDE

LC-33 1550 meters DON 2000 meters

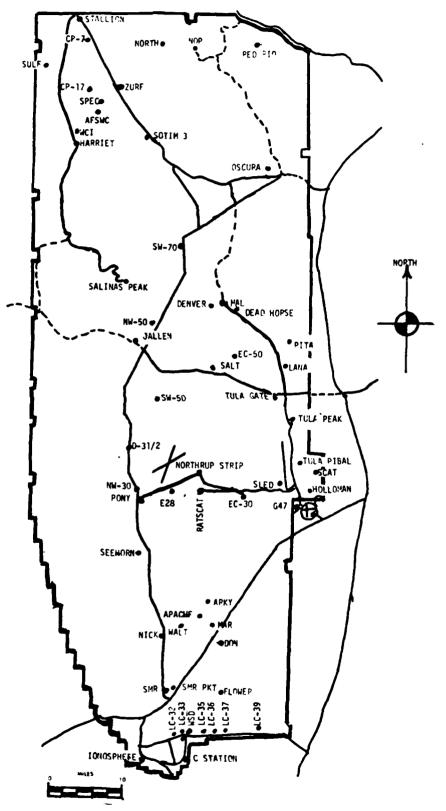
(2) Air structure data (rawinsonde) were collected at the following Met Sites.

SITE AND TIME

WSD 1445 MDT WSD 1600 MDT



WSMR METEOROLOGICAL SITES



🔾 Anemy weter ficte (3) L-351A D TO L-350A MET Tower O OT-9 Radar Y135,000

TABLE

PROJECT SURFACE OBSERVATION

TABLE	1							STATION LC-33	33		
0ATE 14	NUC	1,183	Į					Y= 484,982,73 Y= 185,957,73 H= 3995,00	# >-	185,957.73 H	= 3995,00
1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PRESSURE mbs	06 00 30 G	71135 OC	00 30 NEC	oc oc	PELATIVE HUMIDITY	£13H3C	DIRECTION SPEED CHARACTER degs In kts kts	SPEES Kts	CHAEACTEF Kts	V:5191L- 17Y
1600	879.4		28.8		9.9	6.6 25		177	60		45

				SOLID					
085 TRUCT I 01/15	 t LAYE	e i	2nc	1 LAYE	ايم	1 3rc	1 LAYE	د۵	REMARKS
TO VISIBILITY	 AMT TYPE HGT	HGT	AM	AMT TYPE HST	HST	A:T	ART TYPE HGT	HGT	
		CLR							н АLqbs

PSYCHROPETRIC COMPUTATION

TI:E:	1600	
DRY BULB TE!P.	28.8	
WET BULB TEMP.	15,3	
WET BULB DEPR.	13.5	
DEW POINT	9.9	
RELATIVE HUMID.	52	

PULE #1 (485,87 (185,95 (4)18.7 38.7 ft	4.29 0.90 4		POLE #2 X485,87 Y136.01 H4033.5 53.0 ft	4.29 2.00 7		POLE #3 X485,°7 Y194,11 44003.5 23.6 ft	7.29 6.06	
T-TIME SEC	DIR DEG	SPEED KNOTS	T-TIME SEC	DIR DEG	SPEED KNOTS	T- IME SEC	DIR DEG	SPEED MNOTS
T-3)	131	08	T-30	128	07	T -30	137	08
T-20	141	08	T-20	130	07	T-20	141	09
T-10	142	06	T-10	125	08	T-10	146	08
T0.0	131	08	To.0	117	09	To.0	144	08
T+10	133	06	T+10	118	08	T+10	127	07

TABLE	3	LC-33	METEOROLOGICAL	TOWER	ANEMOMETER	MEASURED WINDS	(202 FT	TOWER)
							•	

LEVEL #1, 13 X484,382.64		3, H3983.00 (base)	LEVEL #2, 62 X484,982.64		3, H3983.00 (base)
T-TIME SEC	DIR DEG	SPEED KNOTS	T-TIME SEC	DIR DEG	SPEED KNOTS
T-30	140	09	T-30	137	07
T-20	133	09	T-20	143	07
T- 10	150	08	T-10	148	08
T0.0	177	09	T0.0	152	09
T+10	158	10	T+10	149	08

LEVEL #3, 10 X484,982.64		3, H3983.00 (base)	LEVEL #4, 20 X484,982.64		73, H3983.00 (base)
T-TIME SEC	DIR DEG	SPEED KNOTS	T-TIME SEC	DIR DEG	SPEED KNOTS
T-30	152	08	T-30	135	08
T-20	150	08	T-20	139	07
T-10	147	07	T-10	136	07
T _{2.0}	156	10	T0.0	135	30
T+10	150	08	T+10	142	07

T-TIME PILOT-BALLOON MEASURED WIND DATA

DATE 14 JUN 1983

SITE: LC-33

IIME: 1600 MDT

WSIM COURDINATES:

 $\chi = 484,837.34$

v = 184,124.44

H 3,975.57

TE: DON

11ME 1600 MDT

WSIM COORDINATES:

 $\chi = 511,988.37$

 $\gamma = 247,396.36$

_{H≈} 3,996.83

LAYER MIDPOINT	DIRECTION	SPEED
METERS AGL	DEGREES	KNOTS
SURFACE	177	09
150	156	03
210	136	03
270	123	04
330	112	05
390	107	80
500	125	08
650	133	09
800	128	09
950	130	09
1150	129	09
1350	129	11
1550	125	10
1750	MISG	MISG
20 0 0	MISG	MISG

Data obtained from a Double Theodolite Tracked pilot-balloon observation.

LAYER MIDPOINT	DIRECTION	SPEE
METERS AGL	DEGREES	KNOT
SURFACE		CALM
150	166	07
210	16 9	80
270	177	07
330	186	06
390	197	05
500	223	04
650	216	04
800	191	04
95 0	190	06
1150	149	07
1350	124	80
1550	129	07
1750	150	04
20 00	261	04

Data obtained from a Single Theodolite Tracked pilot-balloon observation,

AIMING AND T-TIME COMPUTER MET MESSAGES 14 June 1983

WSD 1445	MDT	WSD 1600 MDT
METCM1324	064	METCM1324064
142080122	880	142200122879
00213003	30460880	00373002 30350879
01243011	30050870	01299006 30160869
022 3 1007	29710845	02280006 29830845
03211008	29310807	03240008 29420807
04267007	28830761	04242010 28910761
05346007	28400717	05254009 28410717
06427010	28110675	06292002 28030675
07459026	27810635	07464021 27720635
08465026	27460597	08497024 27490597
09476025	27250561	09477023 27220561
10472020	26940527	10463019 26860527
11465019	26570495	11461020 26500494
12456021	25950449	12462022 25900448

75V		
F 1 1	¥0,T	
STALLON ALTITUDE 3,333-70 FOOT MISE	445	
* * *		ج ا
10.1		٠.
۱۲۱۱	£13	NSCENSION 1.0. 2.,6
105	31.11	11511
1	ž	المحارية

310HI 1054626545 HAIN	PHITE SAMOS	TABLE 6
7		

6 ON TIL COMBINATES 32-40043 LAT LEG 106-37033 LON BEG	
--	--

HEL MANN. PERCENT	19.0	17.0	20.0	25.0	27.0	36.0	31.0	29.0	0.64	34.0	32.0	35.0	16.0	19.0	0.4%	24.0
TEMPFKATULE AIR UFZHOIUI DEGREES CENTIONANE	7•1	7	0:	-1.8	4.6-	†*	-7.2	10.0	4.0-	-10.1	-12.2	-13.6	-23.2	-21.7	-24.5	-35.2
TEMPF AIR DFGREFS	30.4	26.3	73.7	18.6	15.5	6.6	0.6	8•4	寸• 寸	7.7	2.B	=		-1:1	-7.1	-20.8
PATRADAL GROWETPIC ALTITUDE ILLIFAKS MSL FEET	3089.0	4,231.4	4082.5	6c-28+9	76.74.1	9417.7	10391.7	.n.32a.9	12770.1	13144.7	13019.7	15n83.1	15873.8	100601	0.06201	44965•4
PATSQUAL GEOMETRI ALTITUDE VILLIFAKS MSL FEET	870.8	679.5	650.0	0P.>•1	717	714.0					·	7.6		153.2		7 U*U0ti

STATION ACTITION 3989+00 Fr. T 45L 19 JUNE 13 1445 MDT ASCENSION 10+ 296

UPPEK AIK DATA 1650020296 WHITE SANDS

TABLE 7

0E0DETIC COUNTIDATES 32+41043 LAT DEG 106+37033 LOB DEG

GEORN TRIC	PRESSURE	TETHIE AIF	TE-HP RATUPE F DENPOTAT	KEL.HM. PEPCENT	DENSITY S	SPEED AF	* IND DATA	1.8 J.P.E. []	Inofx
NSL FLEI	iiILL IunRs	Ln.	LENTIOR NOE		METER	KNOTS	DEGREES (TN)	KHOTS	REFRACTION
3.484.0	874.8	h •0.	·	10.0	1000.1	th80.	•	2.9	1.000258
C C C C C C C C C C C C C C C C C C C		د ت د د د) : : :) - d	1000.4	7.674	120.1	, 4 , 4	1.0000. 1.0000.
J. 0000	84.9.5	23.6	÷ ;	20.1	13.400	672.0		5.5	
5.500.n	334.6	22.1	•	21.6	OR2.2	670.3		7.8	1.000244
000to	8<0.1	20.5	-1.5	23.1	2.070	068.5	120.9	8.0	
0.000	800.08	13.0	-1.7	9.45	920	1,64.7		8.1	
7000.0	791.5	17.5	5.6-	25.7	946.4	065•0	120.3	B•0	1.000234
7500.0	77/.5	16.0	- 3 • 1	26.7	934.5	663.3	1,35.4	7.5	1.000230
÷00υΩ	763.6	14.6	Q•€-	28•#	922.2	661.7	152.1	6.7	
8500.0	744.0	13+3	-3•c	30.5	7.600	5.094	168.4	6.5	1.000224
9000	750.4	12.0	5.5-	32.6	897.4	058.7	161.2	9•9	•
9500 .0	723.2	10.7	7.11-	34.7	4.000	657.2	193.3	6.7	1.000218
1 m 100.0	710.1	y•6	5.5	a. 55	873.0	655•A	210.1	S. A.	1.000214
10500.0	2.169	e • €	-7.5	30.6	859.6	654.9	231.9	5.7	1.00020B
11.100.0	6.44.0 7.4.0	ر د د د	# C-	0 () 0 ()	845.9	654 • 1	254.7	3 ° C	1.000204
11500.6	671.0	7•1	-7.2	57. 5. 53		65%	204.B	11.7	1.000203
15000.0	9.659	6•1	٠, ٠ • ت ا	40.7	821.1	651.7	201.7	16.2	1.nnn1202
14500.6	5119	C.	15.6	46.1	804.0	550.5	760.n	20.8	1.000200
15060.0	0.40€0 1	±!	₹	39,0	1.967	2.644	258.3	23.6	
15500.6	1523.	5.7	-11•c	33.1	783.7	Landa.7	6.005	26.4	1.000168
14000.0	612.	တ္ : လ •	-12.3	32.2	772.2	0.47.4	5,865	26.A	.0001
u • 60 s to 1	, •nuc	֥1	6.67	35.5 5	75.10.1	1466		56.9	1.000.1
1 2000.0	1.60°	•5	11.40	34.8	2.04/	644.5	263.2	20.4	•
15500.0	5/c•t	· ·	-17.9	ار د د	737.6	64.3.9	200	25.B	1.000172
0.000a.	100	٠ .	જે . ભાગ •	16.3	8.42/	3.50	507°t	0 · 0 · 0	1.000165
1,000	000 000 000 000		0.22	* C	700	0.7.00	0.80%	24.0	1.000164
17:00	7.010	: · · ·	11000	a • 6 1	9.007	041	2003	20.00	1:411100-1
3 0000		າ :	* · · · · · · · · · · · · · · · · · · ·	2	0000	C+U+1	1.102	6.50	7:1:0:1
18500.0	510.5	-5.3	-23.4	າຍາ • ດ • ໄດ້	4.000 6.000	637.3	507	19.4	• •
1.000.1	500.00	† .0-	6.86-	23.4	660.0	036.04	261.7	19.6	1.0001
19500.0	Hecot	-1.t.	116-	24.1	650.1	0350	G*1107	19.8	•
0.00002	4000	8. 8 -	25.00	24.3	2.049	405.50	258•6	•	1.000147
6.0500.5		-10.1	-26.0	4.46	630.5		8.052	19.5	1.000144
こまりしし マラ		-11.3	-27.5	7.0.0	650.4		2,55,2		1.000142
<1,00°15	1.21.67	-12.5	-23.5	24.8	611.5	_	5.54.3	•	1.0001
55,000	-	-13.A	-20.5	25.0	602.0	-	7.00.7	19.5	1.4001.37
ù•buς•2		-15.n	•	2.50	503.1		258.5		1.000135
2.5000.c2		-10.0	-31.5	₹.2°	7. till	624+to	358.6	21.3	1.00013

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	SEODETIC COORDINATES	444043 LAT DE	106+37033 1 ON DEG	INUFX	OF REFRACTION	1.000130	1.000128 1.000126
	SCODE TI	32.	106.	1 A	SPFEU		
				WIND DATA	ALTITUDE ALELI ALELIOARS DECREES CENTIGRAPE PERCENT GMZCHILL SOUND LITRECTION SPREUS 45E FELT ALELIOARS DECREES (14) ANOTS		
<u> </u>	÷	25	t'd	TA HITAN	SOUMD KNOTS	575.4 n23.1	566.7 621.6 558.2 620.1
UPPER AIR IMIA	16500202an	WHITE SANUS	TABLE 7 Cont'd	KEL. Hum. DENSTTY SPECIAL	GMZCUB16 MF1FR	575.4	566.7 558.2
_			1.4	icht. Hum.	PERCENT	25.5	25.7
	ಸ -			TEMPERATORE	DEMPOTAT CENTICRAPE	دا• ۶۶-	-33+5 -34+5
	3.60 Fr.	1115 MINT		1Em	AIR DECRUES	-17.4	-13.7 -19.9
	111Uac 348			PRESSURE	AILLIO, RS	6.234	414.1
	STALLOH ALITIUAL 3489+40 FOUT SE	14 JUNIL 45	ASCLUSION 110+ 2-16	GEONETRIC PRESSURE	ALTITUDE MSL FEET	< 3500.0	24000.0

DETTC COUNDINATES 32-411043 LAT PEG 106-37033 LON PEG												
VEODETTC COUNDINATES 32-40043 LAT PEG 106-37033 LON PFG		SPEED KNOTS	0.1	0.1	6.5	5.5	19.8	56.99	55.9	19.7	19.5	
	AIGO DAIA	DINECTION LFGKLES(TN)	123.3		168.4			260.5				
ر الرابع الرابع الرابع	NEL-Hum.	PERCEINI	2n•	25.	30.	31.	45.	34.	14.	24.	25•	34.
TARDALDIT LEVELS 1650020290 WHITE SANDS TABLE 8			G	-1.9	-3.b	-7.2	-5.7	-12.9	21.9	-24.2	-29.3	C . C .
	TENGLE	NIS DESTRUCTION OF CENTION OF THE CE	7.59	18.4	13.4	U•6,	ر. د.	1.3	-1-	-7.1	-13.6	B-00-
ن ^{بر} 5ر	JPOTENETAL	FLET	4979.	0607.	6403.	10341.	12303.	14514.	16798.	1920,3.	219,5.	. K CH 11.
n aktitubak Aybosoo Epri Jask koso 1445 MDT Librado 296	PRESCULE OF UPOLL NETAL	MILLIBANS	U-19G-1	j•0011	750.0	709.0	(.56.1	v•110'1	1,500.1	500°	450+4	0.000
a aktitua. 35 1.53 ao - 296 1.53 ao - 296												

VEODETTIC COOMPINATES 12+40043 LAT 1/EG 1/16+37033 LON 11EG																	
1. A T. A	UF L . I H IM.	PERCENT	22.0	23.0	26.0	45.0	n•8+	56.0	55.0	31.0	34.0	37.0	31.0	19.0	29.0	29.0	29.0
SIGHTFICANT LEVEL HATA 16.300, U.297 WHITE SAINDS TABLE 9	TEMPFKATUKE	AIR DEWPOLUI PFGREES CENTIGRANE	ት •ሪ	9.0	800	0•0-	7-2-7	0.4-	+5-t	-11.6	-11.5	-11.0	-13.0	-20.3	-22.5	-31.0	オ・オウー
SIGHIF	TEM	AIR DFGREES	30.00	76.4	24.5	A•2	7.6	0 • 4	2.7	(† • f)	2.B	1.2	1.7	••	-7.6	-17.3	->1.1
MSL	PRESSURE STOAFTRIC	ALTITUDE SILLIUDE SILLIUDE	31.84.0	n.6651	40204	10382.0	10082.5	12304.3	12744.4	13138.3	13/183.0	14265.7	14425.6	15435.3	19265.7	<329h.8	24/132.7
STATION ALITIUDE SYROSEO FOUT MISE 14 JUNE 33 ASCENSION NO. 2.7 IEON MOT	PIESSUM	PILLINARS	9758	9.6.8.0	0.00g	0.007	5.42	4.050	641.2	8.150	p. 419	9•500	0.504	4.773	∂ •00€	425.0	C. CC7
STA1109 14 JUNE ASCARSTA																	

ETTC COOGNITUATES 32-40043 LAT DEG 86-37033 LON DEG TRUEX	THEFT ACTION	1.00026.2	1.000256	1.000255	1.000248		1.000241	1.00024	1.000230	1.000226	•	1.000.1	•	1.000210 1.000206	1.000203	• •	•	1.000160	1.000170	1.00016.7	1.000165	1.000160	1.000157	1.000155			1.000145	1.000142	1.000140	1.000135	1.000155
00 ر 1	PELU 1015	6.1	2.7	3 W	7.1	8.1) o	9.6	10.0	9.6	0°0	ر د ه	3.6	60 60 60 60 60 60 60 60 60 60 60 60 60 6	17.1	24.45	24.2	24.1	65.00 5.00 5.00	23.0	22.5	19.7	19.0	2 C	19.6	19.5	19.6	0	22.4	•	23.5
₹ 40	DIRLCTION SI	210.0	169.8	152.7	139.3	134.7	155.4	135.6	137.9	139.3	# C # C # F	3.85.	150.4	254.7	259.0	261.1	1.407	267.0	270.9	0.692	265.2	263.1	0.102	258.7	8.84.C	n.83%	258.5	2,20.1	2.80% 3.40%		6.505.7
gφιΛ US SFEL _F	SOUM SOUM NAOTS	678.0	6.75.4	67.302	1.694	0.89q	664.3	1662 · A	1) • 199	650.5	657.5	654.5	65.5	651 • 4 650 • 5	6. H4G	642.4	1.47.1	646.2	540.0	543.4	54.1.10 104:10	639.tb	1,340.5	637•n	134.4	63204	631+5	030+0	1528.h	0250	1.954
N 2 O	GW/CURIC ME 1FR	1008.1	1000.8	7.060	7.506	95.3.0	0.150	917.5	900-1	មិត្ត ស	885.7 872.7	861.1	847.5	835.6 823.6	712.7	783.9	772.4	760-1	747.	724.1	713.1	9.169	6.8.1°C	5.075	650°B	6.60.9	631.2	621.6	616.2	50.9	6.49.9
- W. II.	PERCENT	22.0	23.0	26.2	70.7	31.4) o o	36.7	38.4	•	¢1.0	, p. 4	44.6	51.3 54.0	55.66 10 4	, to 4.	34.0	30.1	7. C.	20.5	21.8 23.1	11.44	25.7	ひったっ	, O.	0.6°	U•b≥	O	C.C.	C 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0√
P. C.L. RATUPE	1.1 ADL	2 d 3 d 4 d	3.0	~ • m ≥	* 5° °.	tj • €	5 · 5	, •	1	₽•-	-1.0	7 7 . 1 . 1 .	12.8	79° 137° 138° 138°	S • 3 −	-11.5	-11.0	-14.0	[•/]-	-20.5	120.7	-21.5	2.1.2	T - () () ()		-24.0	-24.1	2.12-	2.7.6	20.02	130.4
9.10 FEF	AIR DECREFS	# 6 C	70.4	24.40 20.40	21.4	ۍ د د د د د د د د د د د د د د د د د د د	50.0	15.4	13.9	12.4	10. 8.6	H . 1	7.3	 	3.55 5.55 5.55) to	2.3	1.6	- · ·	9	-1.7	-3.A	c • • •	0.7-	5.6	4. 65-	-10.6	-11.8	13.0	15.4	-10.00
11/2 3 JF		870.9	Accon	340.7	B10.9	RO4.3	77001	76.2.3	20012	7,55.5	722.4	0•611/ 0•769	664.2	657.8	647.1	620.3	611.7	600.3	570.0	560.9	550. 540.	530.1	3.50.€0 1.50.€0	5000	430.4	465.6	470.0	460.7	20.70s	434.6	197°t
5741108 AC111 18 349 83 ASCERSION BO. 6508 183C PR		7.0004	0.003P	50000 c	00000	0500.A	7500.0	0.0000	1.500.0	90006	9500.0	10500.0	11000.0	1508.8	12500.0	13500.0	14000.0	14500.0	15550	100001	16560.0	17500.0	1 ປະເທດ	19506.1	19500.0	200000	C 01,00 2	~ 1000 m	< 1000.0 < 2000.0	P-306.5	2300 0° £

9F ODE THE COMMINATES 52-4-10% STAT DEG 106-57033 LON DEG	INUFX OF REFRACTION.	1.000131	1.000129	1.000126
υξ Ο <u>DL T I (</u> , 12 + 4, 106 + 5,	WIND DATA THECTION SPEED DEGREES(TM) KNOTS F			
TABLE 10 Cont'd	REL. HEM. DENSTY SPEED RE PERCENT GMZCUAL SOUND METER KNOTS DE	570.0 622.1	567.1 621.1	558.4 e.19.6
TABLE	REL. Heas DFNS PERCENT GMZG	ين•ن	0.62	(1 • 0 c'
5TALLOU ALLITULE 3489.00 F. T MSL 14 JULE 53 1600 MDT ASCELISION 110. 297	GEORETRIC PPESSURL TEXFERATURE RELIMBING DENSITY SPPEN RALLITUDE ALLITUDE ALICENT GMYCURIC SOUND MSC FELT FILLIDARS DEGREES CERTIGRANG METER MOTS	-17.8 -31.5	-19•n -32•s	-20.3 -33.6
111Upt 3989	PPESSURE ILLIDAPS D	45.5.4	410.8	
STALIOL ALLITUL 14 JUNE 53 ASCERSION 110.	GEORICTRIC PPESSURL ALLITUDE MSL FELT FILLIDAPS	23500.6	9.000 t-2	0.00647

STATION ALTITULE 3989+10 FET MSL 14 JUNE 63 ASCELSTUR NO. 297

FAMOATORY LEVELS 1659024247 WHITE SALOS

9E0DETIL COORPINATES 32+40043 LAT FE6 10E+37033 LON FE6

7

WHITE SALASS

#100 D.IA DIKECTION SPEED JEGHELS(TN) KNOTS 4.0 0.4 10.0 10.0 110.0 24.1 24.1 153.7 133.4 137.6 134.7 258.8 266.0 259.2 nf L. Hum. PERCEUT TEMPERATURE AIR OEMPOINT DEGREES CENTIGRADE 100.00 to 100.00 PRESCURF OF OPUTERITAL 10372. 12367. 14444. 10760. 19238. 21876. 4953. t679. b432. FLET 250.4 300.4 1,500.r 1,000.n 750.cr 700.n 650 • 6 600 • 6 1,50.6 GILLI: AKS